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FILE 'BIOSIS' ENTERED AT 11:24:43 ON 27 JUN 2006  
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=> s nanoparticle AND raman AND (nucleic or oligonucleotide or polynucleotide or DNA)

L1 169 NANOPARTICLE AND RAMAN AND (NUCLEIC OR OLIGONUCLEOTIDE OR POLYNUCLEOTIDE OR DNA)

=> dup remove l1

PROCESSING COMPLETED FOR L1

L2 150 DUP REMOVE L1 (19 DUPLICATES REMOVED)

=> s nanoparticle (p) raman (p) (nucleic or oligonucleotide or polynucleotide or DNA)

L3 113 NANOPARTICLE (P) RAMAN (P) (NUCLEIC OR OLIGONUCLEOTIDE OR POLYNUCLEOTIDE OR DNA)

=> dup remove l3

PROCESSING COMPLETED FOR L3

L4 95 DUP REMOVE L3 (18 DUPLICATES REMOVED)

=> s l4 (p) sequenc?

L5 29 L4 (P) SEQUENC?

=> d ti 1-29

L5 ANSWER 1 OF 29 MEDLINE on STN

TI Silver nanoparticle-based ultrasensitive chemiluminescent detection of DNA hybridization and single-nucleotide polymorphisms.

L5 ANSWER 2 OF 29 MEDLINE on STN

TI Detection of human immunodeficiency virus type 1 DNA sequence using plasmonics nanoprobe.

L5 ANSWER 3 OF 29 MEDLINE on STN

TI Optical detection of thymine dinucleoside monophosphate and its cis-syn photodimer by inorganic nanoparticles.

L5 ANSWER 4 OF 29 MEDLINE on STN

TI Immobilisation and synthesis of DNA on Si(111), nanocrystalline porous silicon and silicon nanoparticles.

L5 ANSWER 5 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

TI Functionalised nanoparticles as novel biosensing materials

L5 ANSWER 6 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

TI Binding of linear, relaxed, and supercoiled pUC19 plasmid DNA to Au and Ag nanoparticles

L5 ANSWER 7 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

TI Surface enhance raman spectroscopy (SERS) of thiol-capped oligonucleotide probes

L5 ANSWER 8 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

TI Method and apparatus for nucleic acid sequencing and identification using Raman spectroscopy

L5 ANSWER 9 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

TI Nucleic acid sequencing by raman monitoring of uptake of nucleotides during molecular replication

L5 ANSWER 10 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

TI Surface-enhanced Raman scattering for medical diagnostics and biological imaging

L5 ANSWER 11 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Nucleic acid sequencing by Raman monitoring of uptake of precursors during molecular replication

L5 ANSWER 12 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Methods for nucleic acid sequencing by Raman spectroscopy monitoring of uptake of nucleotides during molecular replication

L5 ANSWER 13 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Methods for detecting and sequencing nucleic acids using oligonucleotide probes conjugated with Raman labels, cyanine dyes, quantum dots or nanotags

L5 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Methods for genotyping single nucleotide polymorphisms by detecting Raman labeled nucleotides probes cross-linked to nanoparticles using Raman spectroscopy

L5 ANSWER 15 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Surface-enhanced Raman scattering molecular nanoprobe

L5 ANSWER 16 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Optical properties of dye labelled DNA gold nanoparticle constructs

L5 ANSWER 17 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Polymeric SERRS beads for ultra-sensitive analysis

L5 ANSWER 18 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Spectroscopic analysis system and method

L5 ANSWER 19 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Methods to increase nucleotide signals by Raman scattering

L5 ANSWER 20 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Methods and device for DNA sequencing using Raman spectroscopy

L5 ANSWER 21 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Surface enhance raman spectroscopy (SERS) of thiol-capped oligonucleotide probes

L5 ANSWER 22 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Inorganic nanomaterials for optical sensing of biological molecules in aqueous solution

L5 ANSWER 23 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Methods and device for DNA sequencing using Raman spectroscopy

L5 ANSWER 24 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Methods and device for nucleic acid sequencing by detecting Raman labeled nucleotides cross-linked to silver or gold nanoparticles using Raman spectroscopy

L5 ANSWER 25 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Single molecule Raman spectroscopy using silver and gold nanoparticles

L5 ANSWER 26 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Bioconjugated nanoparticles for biological sensing and imaging

L5 ANSWER 27 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Thermal Desorption Behavior and Binding Properties of DNA Bases and Nucleosides on Gold

L5 ANSWER 28 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Oligonucleotide Adsorption to Gold Nanoparticles: A Surface-Enhanced Raman Spectroscopy Study of Intrinsically Bent DNA

L5 ANSWER 29 OF 29 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI Methods to increase nucleotide signals by raman scattering.

=> d bib 1,5,7,8,13

L5 ANSWER 1 OF 29 MEDLINE on STN  
AN 2006322828 IN-PROCESS  
DN PubMed ID: 16737231  
TI Silver nanoparticle-based ultrasensitive chemiluminescent detection of DNA hybridization and single-nucleotide polymorphisms.  
AU Liu Cheng-Hui; Li Zheng-Ping; Du Bao-An; Duan Xin-Rui; Wang Yu-Cong  
CS College of Chemistry and Environment Science, Hebei University, Baoding 071002, China.  
SO Analytical chemistry, (2006 Jun 1) Vol. 78, No. 11, pp. 3738-44.  
Journal code: 0370536. ISSN: 0003-2700.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS NONMEDLINE; IN-DATA-REVIEW; IN-PROCESS; NONINDEXED; Priority Journals  
ED Entered STN: 2 Jun 2006  
Last Updated on STN: 2 Jun 2006

L5 ANSWER 5 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2006:245577 CAPLUS  
TI Functionalised nanoparticles as novel biosensing materials  
AU Graham, Duncan; Dougan, Jennifer; Faulds, Karen; Karlsson, Camilla; Smith, W. Ewen; Thompson, David  
CS Department of Pure and Applied Chemistry, University of Strathclyde, Glasgow, G1 1XL, UK  
SO Abstracts of Papers, 231st ACS National Meeting, Atlanta, GA, United States, March 26-30, 2006 (2006), COLL-037 Publisher: American Chemical Society, Washington, D. C.  
CODEN: 69HYEC  
DT Conference; Meeting Abstract; (computer optical disk)  
LA English

L5 ANSWER 7 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2006:244312 CAPLUS  
TI Surface enhance raman spectroscopy (SERS) of thiol-capped oligonucleotide probes  
AU Hrabal, Rachel; Healy, Eamonn F.  
CS Department of Chemistry, St. Edward's University, Austin, TX, 78704, USA  
SO Abstracts of Papers, 231st ACS National Meeting, Atlanta, GA, United States, March 26-30, 2006 (2006), CHED-239 Publisher: American Chemical Society, Washington, D. C.  
CODEN: 69HYEC  
DT Conference; Meeting Abstract; (computer optical disk)  
LA English

L5 ANSWER 8 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2006:75116 CAPLUS  
DN 144:144201  
TI Method and apparatus for nucleic acid sequencing and identification using Raman spectroscopy  
IN Su, Xing; Berlin, Andrew A.  
PA Intel Corporation, USA  
SO U.S. Pat. Appl. Publ., 14 pp.  
CODEN: USXXCO  
DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2006019247	A1	20060126	US 2002-153125	20020520
	US 7005264	B2	20060228		
	US 2005019784	A1	20050127	US 2003-701650	20031104
PRAI	US 2002-153125	A2	20020520		

RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 13 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:592023 CAPLUS

DN 143:93536

TI Methods for detecting and sequencing nucleic acids using oligonucleotide probes conjugated with Raman labels, cyanine dyes, quantum dots or nanotags

IN Koo, Tae-Woong; Chan, Selena

PA USA

SO U.S. Pat. Appl. Publ., 23 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005147977	A1	20050707	US 2003-748525	20031229
PRAI	US 2003-748525		20031229		

=> d bib 14, 15, 17, 21, 25, 26, 28

L5 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:588333 CAPLUS

DN 143:93573

TI Methods for genotyping single nucleotide polymorphisms by detecting Raman labeled nucleotides probes cross-linked to nanoparticles using Raman spectroscopy

IN Su, Xing

PA USA

SO U.S. Pat. Appl. Publ., 23 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005147976	A1	20050707	US 2003-748374	20031229
	WO 2005066370	A2	20050721	WO 2004-US43730	20041224
	WO 2005066370	A3	20051103		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2003-748374	A	20031229		

L5 ANSWER 15 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:436478 CAPLUS

DN 144:346143  
TI Surface-enhanced Raman scattering molecular nanoprobe  
AU Wabuyele, Musundi B.; Yan, Fei; Griffin, Guy D.; Vo-Dinh, Tuan  
CS Oak Ridge National Lab., Oak Ridge, TN, 37831-6101, USA  
SO Proceedings of SPIE-The International Society for Optical Engineering  
(2005), 5692(Advanced Biomedical and Clinical Diagnostic Systems III),  
209-215  
CODEN: PSISDG; ISSN: 0277-786X  
PB SPIE-The International Society for Optical Engineering  
DT Journal  
LA English  
RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 17 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2005:186209 CAPLUS  
TI Polymeric SERRS beads for ultra-sensitive analysis  
AU Hernandez, Aaron; Graham, Duncan; Smith, W. Ewen; Cormack, Peter; McCabe,  
Ailie  
CS Department of Pure and Applied Chemistry, University of Strathclyde,  
Glasgow, G1 1XL, UK  
SO Abstracts of Papers, 229th ACS National Meeting, San Diego, CA, United  
States, March 13-17, 2005 (2005), ANYL-393 Publisher: American Chemical  
Society, Washington, D. C.  
CODEN: 69GQMP  
DT Conference; Meeting Abstract  
LA English

L5 ANSWER 21 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2004:222572 CAPLUS  
TI Surface enhance raman spectroscopy (SERS) of thiol-capped oligonucleotide  
probes  
AU Reyes, Emigdio; Healy, Eamonn F.  
CS Department of Chemistry, St. Edward's University, Austin, TX, 78704, USA  
SO Abstracts of Papers, 227th ACS National Meeting, Anaheim, CA, United  
States, March 28-April 1, 2004 (2004), CHED-252 Publisher: American  
Chemical Society, Washington, D. C.  
CODEN: 69FGKM  
DT Conference; Meeting Abstract  
LA English

L5 ANSWER 25 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2003:368045 CAPLUS  
DN 139:156658  
TI Single molecule Raman spectroscopy using silver and gold nanoparticles  
AU Kneipp, Katrin; Kneipp, Harald; Dasari, Ramachandra R.; Feld, Michael S.  
CS Massachusetts Institute of Technology, Cambridge, MA, 02139, USA  
SO Indian Journal of Physics, B (2003), 77B(1), 39-47  
CODEN: IJPBDU; ISSN: 0252-9254  
PB Indian Association for the Cultivation of Science  
DT Journal  
LA English  
RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 26 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2003:185760 CAPLUS  
TI Bioconjugated nanoparticles for biological sensing and imaging  
AU Nie, Shuming; Doering, William E.; Maxwell, Dustin J.  
CS Dept. of Biomedical Engineering, Emory University, Atlanta, GA, 30322, USA  
SO Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United  
States, March 23-27, 2003 (2003), PHYS-488 Publisher: American Chemical  
Society, Washington, D. C.  
CODEN: 69DSA4  
DT Conference; Meeting Abstract

LA English

L5 ANSWER 28 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2001:823651 CAPLUS  
 DN 136:81484  
 TI Oligonucleotide Adsorption to Gold Nanoparticles: A Surface-Enhanced Raman Spectroscopy Study of Intrinsically Bent DNA  
 AU Gearheart, Latha A.; Ploehn, Harry J.; Murphy, Catherine J.  
 CS Department of Chemistry and Biochemistry, University of South Carolina, South Carolina, SC, 29208, USA  
 SO Journal of Physical Chemistry B (2001), 105(50), 12609-12615  
 CODEN: JPCBFK; ISSN: 1089-5647  
 PB American Chemical Society  
 DT Journal  
 LA English  
 RE.CNT 89 THERE ARE 89 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 11:24:29 ON 27 JUN 2006)

FILE 'MEDLINE, CAPLUS, BIOSIS' ENTERED AT 11:24:43 ON 27 JUN 2006

L1 169 S NANOPARTICLE AND RAMAN AND (NUCLEIC OR OLIGONUCLEOTIDE OR POL  
 L2 150 DUP REMOVE L1 (19 DUPLICATES REMOVED)  
 L3 113 S NANOPARTICLE (P) RAMAN (P) (NUCLEIC OR OLIGONUCLEOTIDE OR POL  
 L4 95 DUP REMOVE L3 (18 DUPLICATES REMOVED)  
 L5 29 S L4 (P) SEQUENC?

=> logof

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y\

'Y\' IS NOT VALID HERE

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L6 0 LOGOGG

=> logoff

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LOGOFF? (Y)/N/HOLD:y

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ENTRY

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SESSION

FULL ESTIMATED COST

54.01

54.22

STN INTERNATIONAL LOGOFF AT 11:31:20 ON 27 JUN 2006